

# Bay Area Housing and Community Multiple Hazards Risk Assessment

Advisory Committee Meeting  
March 12, 2014

*Association of Bay Area Governments  
Bay Conservation and Development Commission*



## MEETING AGENDA

- 9:00 Map open house
- 9:30 Welcome
- 9:45 Project review
- 10:00 Selecting and applying indicators
- 10:35 *Break*
- 10:50 Introduce and discuss combining indicators
- 11:10 Criteria for selecting case study areas
- 11:40 Wrap up, next steps and adjourn

# Project Review – steps so far

## Community Indicators

Inform an understanding of the ability to  
prepared for, respond to, and recover from  
earthquakes or flooding

# Community Indicators Process

- Developed an initial list of indicators based on hazard, health, and resilience research in the Bay Area and beyond
- Discussed initial list of indicators with ABAG planning staff
- Shared revised list of indicators with working group
- Made further revisions based on working group input
- Collected regional, high quality data for selected indicators
- Researched and chose indicator measures, thresholds and levels of significance

## Community Indicators Outcomes

- 13 indicators selected, 10 with regionally available data
- Candidate indicators documented for possible use in community scale assessments
- Small number were determined to not be informative of the ability to prepared for, respond to, or recover from earthquakes or flooding

## Selected indicators fall into four dimensions:



# Selected Indicators

## Household capacity

- Home ownership
- Housing cost burden
- Transportation costs

## Socioeconomic Status

- Educational attainment
- Income

## Community Capacity

- Access to a public venue
- Civic organizations
- Community serving facilities and organizations
- Racial/cultural composition

## Information and Mobility

- Age (>75 or <16 years)
- Non-english speakers
- Transit dependence



## For each selected indicator:

- Dimension
- Indicator
- Measure
- Level of significance
- Data source/scale
- Affect on vulnerability
- Type of action informed
- Reference
- Notes

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## Regional Screen Tool Indicators

Indicator	Measure	Level of significance	Data Source/Scale	Affect on Vulnerability	Type of Action Prepare, Respond, Recover	Reference	Notes
<i>Household Capacity</i>							
Housing cost burden	% households with monthly housing costs >50% of gross monthly income	>15%	ACS / block group	↑	Prepare, Respond, Recover	2, 4, 7, 8	
Transportation cost burden	% households with monthly transportation costs >5% of gross monthly income	>15%	ACS / tract assigned to block group	↑	Prepare, Respond, Recover	8	
Housing tenure	% owner occupied housing	Mean - 1 standard deviation	ACS / tract assigned to block group	↓	Prepare, Respond, Recover	1, 2, 3, 6, 7	Owner occupied selected over renter occupied because data sources are higher quality
<i>Socioeconomic Status</i>							
Household income	% households with income <50% AMI	>30%	2010 census / block group	↑	Prepare, Respond, Recover	1, 3, 8	Income reflected as average median income (AMI) more informative than < 200% federal poverty level standard
Education	% persons without a high school diploma > 18 years	Mean + 1 standard deviation	2010 census / block group	↑	Prepare, Respond, Recover	1, 2, 3, 6, 7	

## Dimension: Household Capacity (example indicators)

Indicator	Measure	Level of significance	Data Source /Scale	Affect	Type of Action	Ref	Notes
Housing cost burden	% households with monthly housing costs >50% of gross monthly income	>15%	ACS / block group	↑	Prepare, Respond, Recover	2, 4, 7, 8	
Housing tenure	% owner occupied housing	Mean - 1 standard deviation	ACS / tract assigned to block group	↓	Prepare, Respond, Recover	1, 2, 3, 6, 7	Owner occupied selected over renter occupied because data sources are higher quality

## Wrap Up and Next Steps

- First of three project charrettes: April 21, 2014
- Working groups and/or advisory committee meetings?

### Housing Indicators

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### Community Indicators

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